

THE CLAIMS

What is claimed is:

- 5 1. A trigger assembly for a gun, which comprises a ram arranged for sliding to and fro in an associated guidance between a retracted position and an advanced position where the ram acted on by a compression spring is opening a gas valve, and a pivotable sear arranged for in a first position to hold the ram in retracted position by means of a first hook of the sear engaging a second hook of the ram and in another position to release this engagement,
10 wherein the trigger assembly further comprises a supporting device for in a first position to support the sear in its first position and in a second position to allow the sear to pivot from the first to the second position, and means for driving the supporting device from its first to its second position by activating the trigger.

- 15 2. A trigger assembly according to claim 1, wherein the trigger assembly comprises a spring for biasing the supporting device from its second to its first position.

- 20 3. A trigger assembly according to claim 1, wherein the supporting device is formed as a pivoting arm.

- 25 4. A trigger assembly according to claim 1, wherein the pivoting arm extends mainly perpendicularly to the sear.

- 30 5. A trigger assembly according to claim 1, wherein the sear for engaging the free end of the pivoting arm has a supporting area formed along a curve which in the second positions of the sear and the pivot arm has at least the same distance from the pivot of the pivot arm as in the first position.

- 35 6. A trigger assembly according to claim 1, wherein the pivot arm pivots over an angle of between 5 and 15° between the first and second positions.

7. A trigger assembly according to claim 1, which further comprises a roller or ball bearing mounted on the free end of the pivot arm.

8. A trigger assembly according to claim 1, wherein the means for pivoting the supporting device from the first position to the second position comprises a solenoid and armature arrangement.

9. A trigger assembly according to claim 8, wherein the armature has a protrusion abutting the supporting device, and the arrangement further includes at least one battery, a circuit connecting the battery with the solenoid, and a switch for closing the circuit when being activated by the trigger.

10. A trigger assembly according to claim 1, wherein the means for pivoting the supporting device from the first position to the second position comprises a pneumatic cylinder.

11. A trigger assembly according to claim 1, wherein the pneumatic cylinder has a piston rod abutting the supporting device, and the means for pivoting the supporting device includes at least one battery, a circuit connecting the battery with the solenoid, and a switch for closing the circuit when being activated by the trigger.

12. A gun that includes the trigger assembly of claim 1.

13. The gun of claim 12 in the form of an air rifle, air handgun, paint ball gun, or other toy gun.